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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/818,081	03/26/2001	Shawn R. Gettemy	PALM-3628.US.P	9783

7590 06/27/2006

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EXAMINER

NGUYEN, KEVIN M

ART UNIT PAPER NUMBER

2629

DATE MAILED: 06/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/818,081

Applicant(s)

GETTEMY ET AL.

Examiner

Kevin M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 April 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. This communication is responsive to the applicant's amendment filed 04/27/2006. Independent claims 1, 13, 19 and 25 are amended. Thus, claims 1-29 are currently pending in the application.
2. Response to the claim objection is persuasive; the objection of claims 1 and 25 is withdrawn.
3. Response to amendment and argument are not persuasive; the amendment necessitates a new ground of a rejection.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Especially, claims 1, 13, 19 and 25 recite the term "a permanent pixel border...comprising a plurality of pixels" in lines 8-11 of claim 1, in lines 9-12 of claim

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13, in lines 13-16 of claim 19, and the term "a pixel border...comprising a plurality of pixels" in lines 9-10 of claim 25.

Claims 1-29 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for "According to FIG. 9, the row and column drivers used for the pixel border do not sequentially scan in one embodiment. In the embodiment discussed above where conventional drivers are available to drive the border pixels, then in this case, row and column drivers used for the pixel border could sequentially scan. The 2x row drivers 450a-450d of the pixel border region 312 are coupled to a threshold voltage driver 430b which provides a constant common voltage level (V_{th2}) when in the on state. Likewise, the 2x column drivers 410a-410d of the pixel border region 312 are coupled to a threshold voltage driver 430a which provides a constant common voltage level (V_{th1}) when in the on state. The difference between these threshold voltage levels comprises a threshold voltage (V_2). The voltage V_2 , or a greater amount, is common to and applied to all pixels of the border region 312 uniformly when in the on state. The difference between these threshold voltage levels comprises a threshold voltage (V_1). The voltage V_1 , or less, is common to and applied to all pixels of the border region 312 uniformly when in the OFF state." See page 22, line 22—page 23, line 9. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

This limitation contains various inconsistencies and/or ambiguities so that the pixels border region of a passive LCD device is unable to work. The pixels border region of the passive LCD device would not be made a product.

The working LCD device configured the pixels border regions/portions that form a digitized image may or may not be in one-to-one correspondence with screen pixels border regions/portions depending on how a computer controls the pixels on and off.

A **pixel** is one of the many tiny *dots* that make up the representation of a picture/image. A pixel is generally thought of as the smallest complete sample of an image¹. How does only a pixel/a tiny pixel construct pixels border region/portions surrounding the passive LCD screen? How does a permanent pixel or a pixel...comprising a plurality of pixels?

Response to Arguments

6. Applicant's arguments filed 04/27/2006 have been fully considered but they are not persuasive. Applicant argues features in the amended claims 1, 13, 19 and 25 that are newly recited. Thus, the new ground of rejection has been moot. See rejection indicated above. For these reasons, the rejection has been maintained.

¹ Please see <http://en.wikipedia.org/wiki/Pixel> for further details of the definition of the term "pixel."

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7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

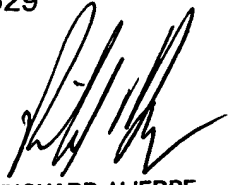
Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN M. NGUYEN whose telephone number is 571-272-7697. The examiner can normally be reached on MON-THU from 8:00-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, a supervisor RICHARD A. HJERPE can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the Patent Application Information Retrieval system, see <http://portal.uspto.gov/external/portal/pair>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KMN
June 22, 2006

Kevin M. Nguyen
Patent Examiner
Art Unit 2629



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600